

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P642732

Luminaire Tested: GWS-SA6D-740-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-740-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

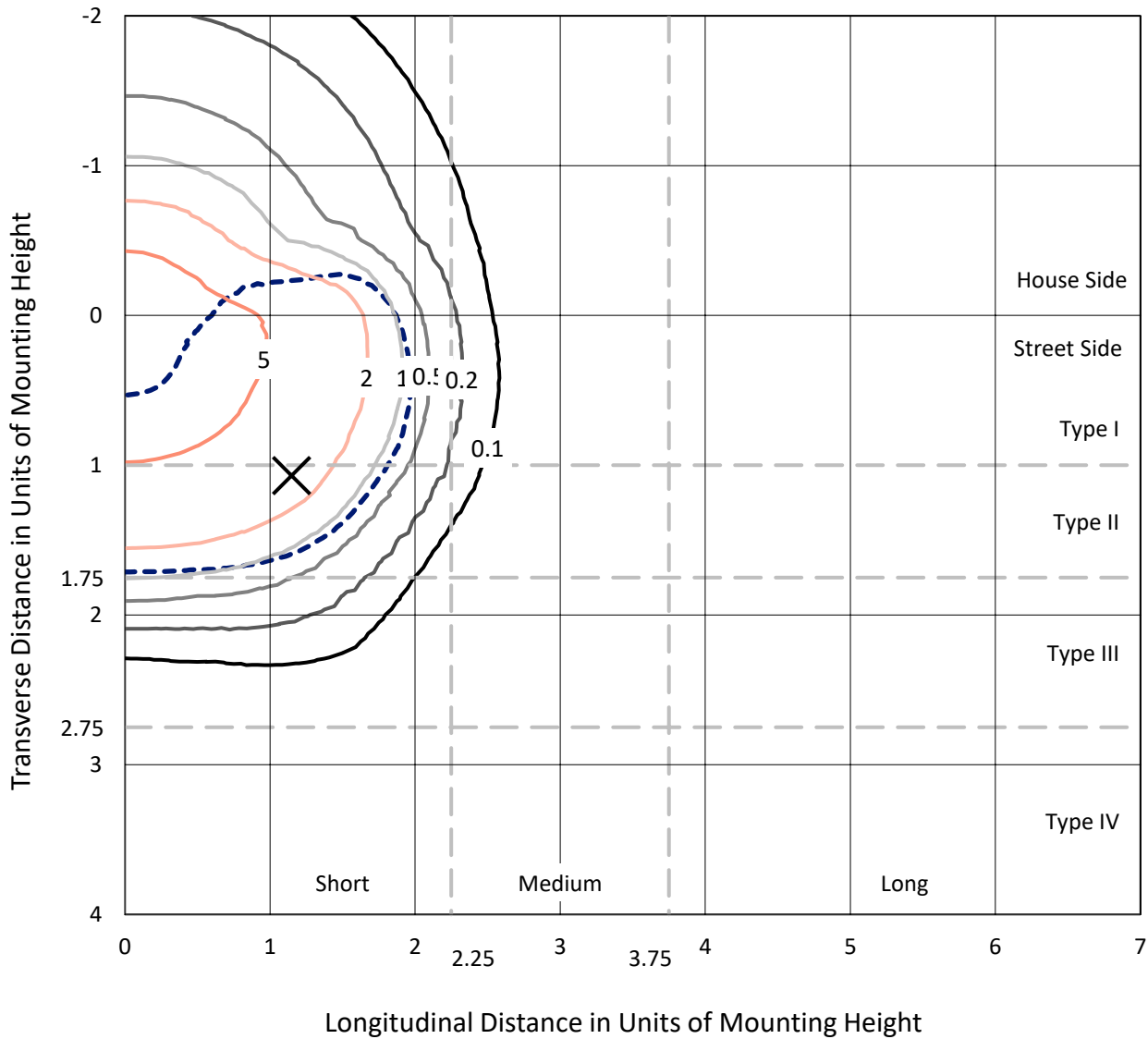
Lumens per Lamp: N/A  
Luminaire Lumens: 30574 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

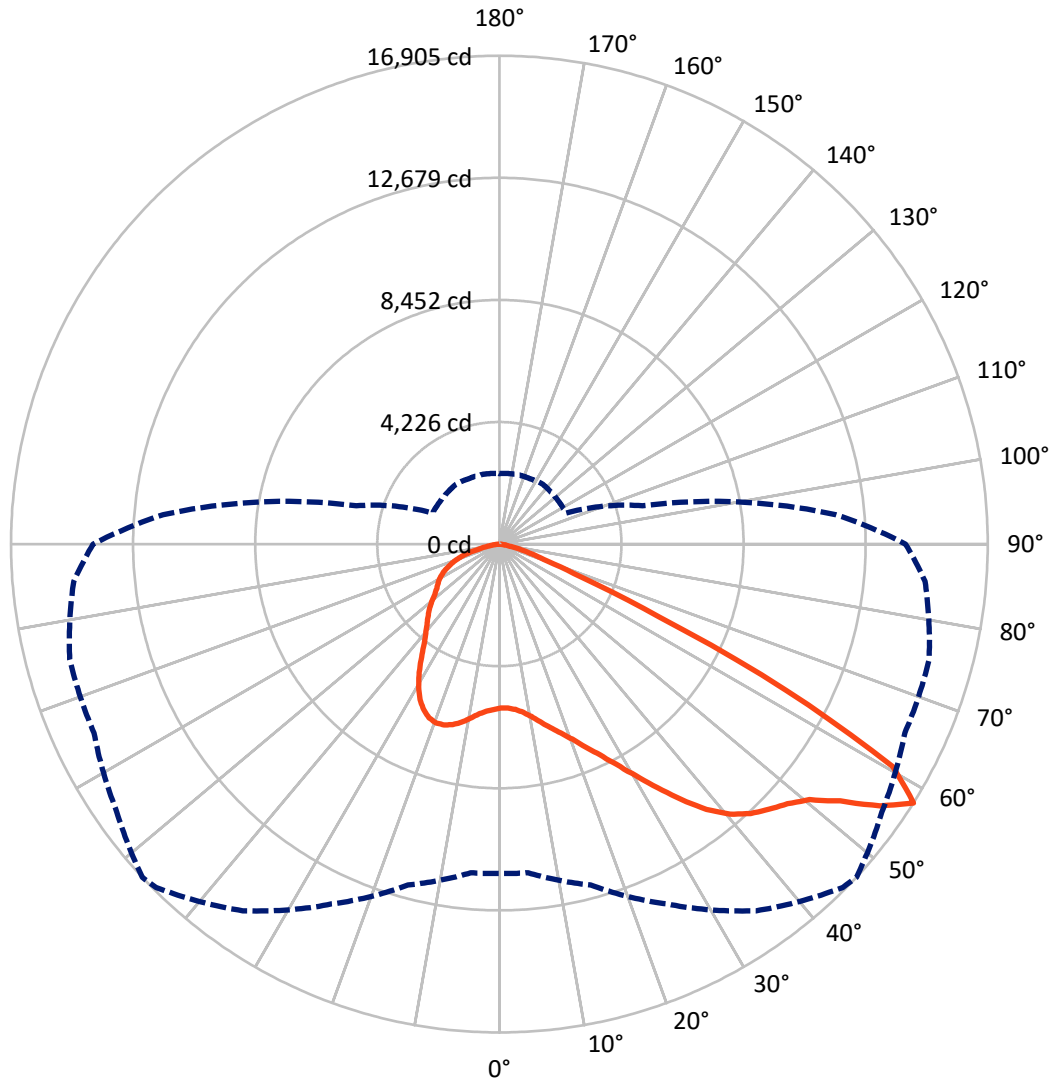
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9676.6	0.0	9676.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	20897.4	0.0	20897.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	30574.0	0.0	30574.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	559.2	1.8
10°-20°	1839.4	6.0
20°-30°	3312.0	10.8
30°-40°	5002.4	16.4
40°-50°	6736.3	22.0
50°-60°	8094.6	26.5
60°-70°	3942.2	12.9
70°-80°	971.2	3.2
80°-90°	116.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30574.0	100.0
0°-180°	30574.0	100.0

**Coefficient of Utilization**



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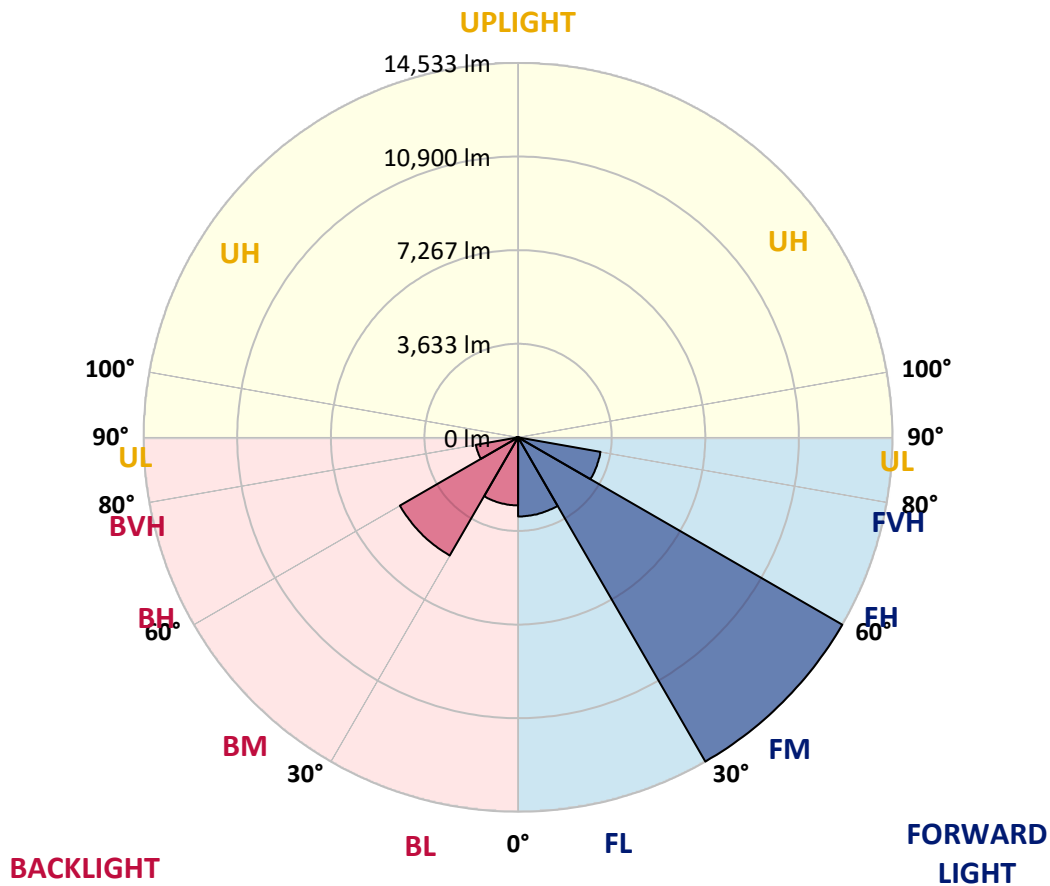
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3071.0	10.0			
FM (30°-60°)	14533.4	47.5			
FH (60°-80°)	3249.1	10.6			G2/5000
FVH (80°-90°)	43.9	0.1			G1/100
BL (0°-30°)	2639.6	8.6	B4/5000		
BM (30°-60°)	5299.8	17.3	B4/8500		
BH (60°-80°)	1664.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	72.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0
2.5°	5659.7	5657.2	5657.2	5672.6	5672.6	5677.7	5685.4	5693.1	5695.7	5682.8	5654.6
5°	5721.4	5721.4	5721.4	5734.2	5734.2	5739.3	5749.6	5752.2	5749.6	5729.1	5700.8
7.5°	5818.9	5818.9	5821.5	5836.9	5849.7	5857.5	5875.4	5872.9	5865.2	5831.8	5795.8
10°	5978.1	5985.8	5993.6	6011.5	6037.2	6055.2	6068.0	6068.0	6057.8	6006.4	5960.2
12.5°	6204.1	6214.4	6222.1	6237.5	6258.0	6288.9	6317.1	6317.1	6304.3	6240.1	6170.7
15°	6468.6	6478.9	6476.3	6481.5	6520.0	6563.6	6586.7	6602.2	6607.3	6517.4	6409.6
17.5°	6771.6	6781.9	6771.6	6756.2	6761.4	6830.7	6871.8	6928.3	6961.7	6841.0	6668.9
20°	7046.4	7036.1	7036.1	7046.4	7061.8	7146.6	7208.2	7300.6	7341.7	7195.3	6928.3
22.5°	7336.6	7359.7	7349.4	7349.4	7411.0	7552.3	7626.8	7747.4	7791.1	7601.1	7241.6
25°	7711.5	7732.0	7726.9	7732.0	7803.9	8004.2	8078.7	8302.1	8345.8	8073.6	7588.2
27.5°	8122.4	8155.7	8171.2	8166.0	8281.6	8543.5	8636.0	8946.7	9026.3	8602.6	7958.0
30°	8656.5	8692.4	8705.3	8700.2	8836.3	9193.2	9298.5	9652.9	9765.8	9229.1	8428.0
32.5°	9275.4	9311.3	9349.8	9365.2	9539.9	9904.5	10056.0	10423.2	10585.0	9953.3	8995.5
35°	9889.1	9919.9	9994.4	10115.1	10353.9	10726.2	10859.8	11221.9	11378.5	10705.7	9681.1
37.5°	10567.0	10587.6	10651.8	10818.7	11162.8	11517.2	11650.7	11997.4	12015.4	11432.4	10456.6
40°	11309.2	11309.2	11296.3	11460.7	11820.2	12177.1	12292.7	12493.0	12387.7	11992.2	11211.6
42.5°	11938.3	11928.0	11938.3	12092.4	12359.5	12649.6	12749.8	12711.3	12577.7	12421.1	11894.7
45°	12505.8	12513.5	12606.0	12724.1	12862.8	13034.8	13093.9	12875.6	12754.9	12765.2	12441.6
47.5°	12891.0	12898.7	13114.4	13312.2	13396.9	13450.8	13425.1	13122.1	13060.5	13176.1	12862.8
50°	12942.4	12983.5	13355.8	13761.5	13972.1	13979.8	13907.9	13538.1	13520.2	13651.1	13088.7
52.5°	12952.6	12993.7	13458.5	14190.4	14737.4	14852.9	14770.7	14385.6	14198.1	14067.1	13366.1
55°	12914.1	12960.3	13473.9	14478.0	15525.7	15987.9	15995.6	15451.2	14852.9	14765.6	14157.0
57.5°	11401.6	11419.6	12215.6	13746.1	15494.9	16804.5	16904.7	16165.1	15482.1	15399.9	14791.3
60°	7942.6	8014.5	8879.9	10900.9	13016.8	15325.4	15649.0	15433.3	14976.2	14377.8	12690.7
62.5°	3977.7	4039.4	4907.3	6817.9	8977.5	10800.7	11147.4	11375.9	11483.8	10841.8	8641.1
65°	1712.8	1759.0	2298.3	3561.7	5081.9	5962.7	6083.4	6358.2	7031.0	6273.5	4655.7
67.5°	1145.3	1176.1	1450.9	2172.5	2994.2	3050.7	3032.7	3091.8	3238.2	2673.2	2103.1
70°	878.2	903.9	1088.8	1592.1	2151.9	1841.2	1743.6	1581.8	1717.9	1751.3	1705.1
72.5°	636.8	657.4	796.1	1086.2	1348.2	1176.1	1160.7	1242.9	1427.8	1479.1	1450.9
75°	410.9	421.1	505.9	595.8	695.9	755.0	785.8	934.7	1122.2	1160.7	1127.3
77.5°	274.8	282.5	331.3	382.6	395.5	398.0	408.3	475.1	603.5	675.4	667.7
80°	143.8	143.8	161.8	161.8	184.9	220.8	231.1	274.8	333.8	369.8	372.4
82.5°	56.5	59.1	69.3	77.0	92.4	113.0	120.7	143.8	174.6	200.3	223.4
85°	23.1	25.7	28.2	33.4	41.1	51.4	53.9	61.6	82.2	102.7	115.6
87.5°	0.0	0.0	2.6	2.6	5.1	7.7	7.7	10.3	12.8	23.1	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0	5670.0
2.5°	5688.0	5654.6	5688.0	5698.2	5726.5	5736.8	5718.8	5716.2	5716.2	5690.5	5682.8
5°	5726.5	5695.7	5729.1	5744.5	5785.5	5811.2	5816.4	5836.9	5849.7	5839.5	5836.9
7.5°	5821.5	5783.0	5818.9	5842.0	5896.0	5937.1	5955.0	6001.3	6034.6	6029.5	6026.9
10°	5988.4	5937.1	5978.1	6016.7	6075.7	6124.5	6127.1	6152.8	6186.1	6175.9	6170.7
12.5°	6181.0	6132.2	6178.4	6217.0	6286.3	6306.8	6273.5	6263.2	6268.3	6255.5	6245.2
15°	6417.3	6347.9	6389.0	6432.7	6471.2	6448.1	6376.2	6347.9	6345.4	6327.4	6317.1
17.5°	6653.5	6566.2	6597.0	6620.1	6602.2	6530.2	6440.4	6391.6	6368.5	6332.5	6322.2
20°	6887.2	6776.8	6771.6	6753.7	6671.5	6540.5	6419.8	6322.2	6263.2	6214.4	6196.4
22.5°	7154.3	7000.2	6923.1	6841.0	6661.2	6448.1	6265.8	6127.1	6032.1	5970.4	5949.9
25°	7441.9	7223.6	7064.4	6900.0	6558.5	6250.3	5996.1	5806.1	5693.1	5626.3	5603.2
27.5°	7726.9	7426.5	7187.6	6907.7	6353.1	5965.3	5623.8	5367.0	5254.0	5200.1	5182.1
30°	8112.1	7696.1	7334.0	6807.6	6083.4	5569.8	5143.6	4884.2	4809.7	4771.2	4755.8
32.5°	8556.3	8037.6	7529.2	6597.0	5739.3	5107.6	4658.2	4478.5	4427.1	4352.6	4350.1
35°	9141.8	8525.5	7714.1	6286.3	5305.3	4612.0	4285.9	4157.5	4065.0	3946.9	3936.6
37.5°	9824.9	9134.1	7814.2	5890.8	4799.5	4203.7	4008.5	3864.7	3715.8	3559.2	3538.6
40°	10531.1	9845.4	7821.9	5423.5	4303.9	3934.1	3769.7	3582.3	3397.4	3222.8	3199.6
42.5°	11273.2	10508.0	7685.8	4884.2	3898.1	3700.4	3533.5	3297.2	3089.2	2971.1	2958.3
45°	11935.7	11042.1	7377.7	4316.7	3597.7	3505.2	3292.1	3037.9	2927.4	2842.7	2824.7
47.5°	12457.0	11396.5	6961.7	3808.2	3353.7	3304.9	3027.6	2896.6	2811.9	2734.8	2716.9
50°	12713.8	11476.1	6419.8	3394.8	3127.7	3068.7	2878.7	2778.5	2722.0	2660.4	2645.0
52.5°	13032.3	11566.0	5952.5	3048.1	2906.9	2827.3	2755.4	2675.8	2634.7	2596.2	2583.3
55°	13764.1	11904.9	5705.9	2770.8	2696.3	2660.4	2650.1	2583.3	2570.5	2544.8	2521.7
57.5°	14062.0	11686.7	5123.0	2544.8	2529.4	2534.5	2560.2	2498.6	2485.8	2454.9	2439.5
60°	11309.2	8833.7	3469.3	2349.7	2390.7	2424.1	2449.8	2388.2	2370.2	2365.1	2344.5
62.5°	7246.7	5433.7	2421.6	2167.3	2229.0	2270.1	2285.5	2226.4	2213.6	2254.6	2257.2
65°	3772.3	2960.8	1964.5	1972.2	2023.5	2085.2	2116.0	2095.4	2090.3	2134.0	2136.5
67.5°	1925.9	1810.4	1712.8	1741.1	1782.1	1861.8	1933.7	2023.5	2054.3	2059.5	2062.0
70°	1640.9	1589.5	1540.8	1558.7	1602.4	1646.0	1715.4	1759.0	1707.7	1694.8	1689.7
72.5°	1397.0	1358.4	1335.3	1355.9	1379.0	1371.3	1350.7	1371.3	1379.0	1381.5	1384.1
75°	1086.2	1058.0	1040.0	1042.6	1042.6	1014.3	975.8	952.7	927.0	906.5	906.5
77.5°	665.1	670.2	688.2	685.6	683.1	672.8	634.3	613.7	552.1	534.1	534.1
80°	380.1	387.8	405.7	410.9	410.9	398.0	359.5	336.4	308.2	295.3	292.7
82.5°	231.1	241.4	251.7	256.8	259.4	244.0	210.6	192.6	177.2	164.3	164.3
85°	120.7	125.8	136.1	138.7	131.0	115.6	97.6	89.9	74.5	71.9	71.9
87.5°	33.4	36.0	41.1	33.4	30.8	23.1	12.8	10.3	5.1	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)